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CLAIMS

What is claimed is:

1. An anchoring system comprising:

an anchor comprising a shank with an expandable portion and a wedge arranged to wedge against said expandable portion, said expandable portion having a first portion thicker than a second portion thereof.

2. An anchoring system comprising:

an anchor comprising a shank with an expandable portion having a variable-size fulcrum and a wedge arranged to wedge against said variable-size fulcrum of said expandable portion.

3. The anchoring system according to claim 1 wherein said wedge is adapted to expand said expandable portion outwards further when wedged against said first portion than when wedged against said second portion.

4. The anchoring system according to claim 2 wherein said fulcrum comprises a first portion thicker than a second portion thereof, and said wedge is adapted to expand said expandable portion outwards further when wedged against said first portion than when wedged against said second portion.

5. The anchoring system according to claim 1 wherein said expandable portion is formed with a hole therethrough, said hole having a non-uniform diameter along its axial length, wherein a diameter of said hole is smaller at the first portion of said expandable portion than at the second portion of said expandable portion.

7. The anchoring system according to claim 1 and further comprising a wedging device adapted to wedge said wedge against said expandable portion.

8. The anchoring system according to claim 7 wherein said wedging device comprises a threaded connection between said wedge and said shank.

9. The anchoring system according to claim 7 wherein said wedging device comprises a hammerset wedging device adapted to impart relative axial motion between said wedge and said expandable portion.

10. The anchoring system according to claim 1 wherein said shank comprises an internally threaded portion adapted for threaded engagement with a male-threaded fastener.

11. The anchoring system according to claim 1 and further comprising an undercut drilling tool adapted to drill a hole with an undercut portion adapted for at least one of said first and second portions of said expandable portion to expand therein.

12. The anchoring system according to claim 1 and further comprising a biasing device adapted to exert an outwardly directed expanding force against said expandable portion.
13. The anchoring system according to claim 12 wherein said biasing device is adapted to urge said wedge against said expandable portion when said wedge is wedged against said expandable portion.
14. An anchoring system comprising:
  - an anchor comprising a shank with an expandable portion and an expandable wedge arranged to wedge against said expandable portion.
15. The anchoring system according to claim 14 wherein said expandable wedge comprises a secondary wedge which is received in a recess formed in said wedge, said secondary wedge, when wedged into said recess, being adapted to expand said expandable wedge outwards.
16. The anchoring system according to claim 15 wherein said expandable wedge is formed with a plurality of leaves adapted to expand outwards when wedged against by said secondary wedge.
17. The anchoring system according to claim 14 wherein said expandable portion has a first portion thicker than a second portion thereof.
18. The anchoring system according to claim 14 wherein said expandable portion has a variable-size fulcrum and said wedge is arranged to wedge against said variable-size fulcrum of said expandable portion.
19. The anchoring system according to claim 14 and further comprising a biasing device adapted to exert an outwardly directed expanding force against said expandable portion.
20. The anchoring system according to claim 17 wherein said biasing device is adapted to urge said wedge against said expandable portion when said wedge is wedged against said expandable portion.
21. An anchoring system comprising:
  - an anchor comprising a shank with an expandable portion and a wedge arranged to wedge against said expandable portion; and
  - a biasing device adapted to exert an outwardly directed expanding force against said expandable portion.
22. The anchoring system according to claim 21 wherein said biasing device is adapted to urge said wedge against said expandable portion when said wedge wedges against said expandable portion.

23. The anchoring system according to claim 21 wherein said biasing device comprises at least one of a spring and an elastomeric material.
24. The anchoring system according to claim 21 wherein said biasing device is power-driven.
25. The anchoring system according to claim 24 wherein said biasing device is driven by at least one of fluid, electrical, electro-mechanical and electromagnetic power.
26. The anchoring system according to claim 24 wherein said biasing device is adapted to selectively expand and contract said expandable portion.
27. The anchoring system according to claim 24 wherein said biasing device comprises a fluid-power biasing device that comprises a driving fluid that flows inside said biasing device and a pump adapted to pump said fluid.
28. The anchoring system according to claim 24 wherein said biasing device comprises an indicator adapted to indicate if said anchor is safely anchored in place.
29. The anchoring system according to claim 28 wherein said indicator comprises a pressure sensor adapted to sense a pressure applied to said wedge.
30. The anchoring system according to claim 29 wherein said biasing device comprises a fluid-power biasing device that comprises a driving fluid that flows inside said biasing device and a pump adapted to pump said fluid, and said pressure sensor cooperates with said pump in a closed system to control pressure exerted by said biasing device.
31. The anchoring system according to claim 24 and further comprising apparatus adapted to drill at least one hole, insert said anchor in said at least one hole, and selectively expand and contract said expandable portion of said anchor in said at least one hole.
32. A method for drilling a hole, comprising:  
drilling a hole adapted to receive an anchor therein, and generally simultaneously blowing air into said hole so as to clean said hole from debris.
33. The method according to claim 32 wherein said drilling comprises drilling with a drill tool provided with a passageway for blowing air therethrough.
34. The method according to claim 33 wherein said drilling comprises drilling with a pneumatic drill powered by pressurized air, and diverting some of the pressurized air through said passageway.
35. The method according to claim 32 wherein said drilling comprises drilling an undercut hole.